

CS290f - Deployment with Capistrano

Scalable Internet Services, Fall 2006

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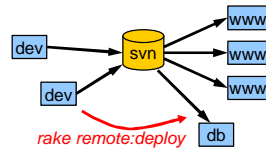
From Charles Brian Quinn's presentation to Atlanta Ruby User Group

What & Who's

- Automated Web Application Deployment
- Another tool extracted from Basecamp by
 - Jamis Buck and DHH
- Without Capistrano
 - SSH into app server
 - cd into /path/my/app; move app elsewhere
 - get latest version of app; setup database.yml; setup any other shared resources; migrate databases
 - restart application servers; restart web server
 - repeat for all servers (!)
 - if an error introduced, move old back....
- With Capistrano
 - \$ rake remote:deploy
 - \$ rake remote:rollback

Model

```
[deploy_to]
+- releases
  +- 20050725121411
  +- 20050801090107
  +- 20050802231414
  ...
  +- 20050824141402
    +- Rakefile
      +- app
      +- config
      +- db
      +- lib
      +- log --> [deploy_to]/shared/log
      +- public
      +- ...
      +- system --> [deploy_to]/shared/system
      ...
      +- script
      +- test
      +- vendor
    +- shared
    +- log
    +- system
+ current --> [deploy_to]/releases/20050824141402
```



Mechanics

- Installation
 - \$ gem install capistrano
 - apply to your app:
 - \$ cap --apply-to /my/app MyApp
- deploy.rb
 - ♦ the configuration or "recipe" file
 - variables
 - ♦ set :deploy_to, "/var/www/apps/#{application}"
 - roles
 - ♦ role :web, "bristol.highgroove.com"
 - tasks
 - ♦ desc "A Task that does something cool"
 - ♦ task :something_cool, :roles => [:app, :db] do
 - ♦ # ...
 - ♦ end
- The minimum to play
 - set :application, 'racecar'
 - set :repository, 'http://svn.highgroove.com/racecar/trunk'
 - role :app, 'daytona.highgroove.com'
 - role :web, 'daytona.highgroove.com'
 - role :db, 'daytona.highgroove.com', :primary => true

Built-in

■ Tasks

- deploy / cold_deploy / deploy_with_migrations
- rollback
- update / update_code / update_current
- cleanup
- disable_web / enable_web
- migrate
- restart / restart_web
- setup

■ Repositories

- Svn, cvs, perforce, ...

■ Deployments

- Mongrel, Apache, Mysql, Postgres, ...